SWAN

A NEW ALMANACK

For the year of our LORD GOD,

1673.

Being the first after the Leap-year, and from the Creation of the World at the Spring, 5676 years.

Wherein is contained the principal aspects of the planets, with the Eclipses and other Celestial observations suitable for such a work.

Calculated properly for the famous University and Town of *Cambridge*, where the Pole is elevated 52 degr. and 17 min. above the Horizon.

Dixit autem Deus, fiant Luminaria in Firmamento Cœli, & dividant Diem ac Noctem: & sint in Signa, & tempora, & Dies, & Annos, Gen. 1. 14.

CAMBRIDGE,

Printed by *John Hayes* Printer to the University. 1673.

An Explanation of the Almanack.

THere is in the following Almanack for every moneth two pages, in the left hand pages are contained 7 Columns, the first shews the days of the moneth, the second the days of the week, the third the Festival days, with the beginning and ending of the Terms, the fourth the hour and minute of sun-rising, the fifth the hour and minute of sun-setting, the sixth the suns place in the Zodiack, the seventh the moons place in the Zodiack.

In the right hand pages are three Columns, the first shews the days of the moneth, the second the principal aspects of the Planets, with the inclination of the air, the third the rising and setting of the morning and evening star, with other Celestial observations, as also the beginnings and endings of *Cambridge* Terms.

A Regal Table, shewing the names, and beginnings of the Reigns of all the English Monarchs, (excepting those of the Saxon Heptarchy who being many, and many of their Reigns short are left out) from *Brute* (of whom it is supposed Britain took its name) to our Soveraign Lord *Charles* the Second, wherein take notice that from the beginning of the Table, to the Birth of our Saviour, the year of the world (wherein they began their Reigns) is prefixed to their names, and after that the year of Christ.

A.M.	Trojans.				
2855	Brute, the Builder of new *Troy* now *Lond.*		3158	Cordeela.	
2879	Locrine.		3162	Morgan & Cunadag.	
2914	Madan.		3172	Rivallo.	
2954	Mempricius.		3242	Gurguſius.	
2974	Ebrank.		3279	Syſillius.	
3034	Brute-greenſhield.		3372	Jago.	
3046	Leil.		3392	Kinnimarchus.	
3071	Lud-huddibraſs.		3404	Gorbodug.	
3100	Bladud.		3467	Ferrex & Porrex.	
3111	Leir.				

A.M.	British Monarchs ſcarce acknowledged.				
3421	Dunwallo.		3671	Archigallus.	
3562	Belinus & Brennus.		3676	Elidurus.	
3588	Gurguintus.	about this time one *Cantaber* is ſaid to have founded the Univerſity of *Cambr.*	3693	Vigenius & Peridurus from hence 33 onely named till Helie, the father of Lud, from whom *London* took its name.	
3607	Gumtholinus.		3800		
3640	Sicillus.		3801		
3642	Kimarus.				
3644	Elanius.				
3652	Morindus.				
3669	Gorboman.				

British Tributaries to the Romans.

3905	Cassibellane.			45	Arviragus.
3921	Theomantius.			73	Marius.
3944	Kimbaline.	In	his time	126	Coilus, from whom
A.C.	Guiderius.	our	Saviour		*Colchester* is thought to
17		was	born.		take its name.

British mixed with Romans.

A.C			A.C	
180	Lucius.	The first Christian King.	282	Coill.
208	Severus.		310	Constantine Clorus.
213	Bassianus.		329	Octavius.
219	Carausius.		383	Maximianus.
226	Alectus.		391	Gratian.
232	Asclepiodotus.			Constantine of litle B.

British mixed with Saxons.

A.C.		A.C.	
448	Vortigern.	548	Vorliporus.
464	Vortimer.	552	Malgo.
481	Aurelius.	586	Careticus.
500	Uter-Pendragon.	613	Cadwan.
517	Arthur.	635	Cadwallo.
543	Constantine 3.	683	Cadwallader.
546	Aurelius Conanus.		

Here began the Heptarchy of 7 pettykingdoms, *viz.* *Kent*, *Sussex*, *East-Saxons*, *East-Angles*, *Mercia*, *Northumberland*, and *West-Saxons*, whose kings being many I shall not mention them.

Saxon Monarchs.

A.C.			A.C.	
800	Egbert.	who gave name to *England*.	837	Ethelwolf.
857	Ethelbald.		860	Ethelbert.
866	Ethelred.		901	Edward the elder.
872	Alfred.		940	Edmund.
925	Adelstane.		946	Edred.
955	Edway.		978	Ethelred.
959	Edgar.		1016	Edmund-Ironside.
975	Edward.			Di-

A.C.	Danish Monarchs.		
1018	Canutus.	1043	Edward, the Confessor
1038	Harold Harefoot.	1066	Harold, the first King that cured the evil.
1040	Hardicanutus.		

A.C.	Normans		Began their Re.		
1066	Wil. Conqer.		Octob.	14	
1087	Wil. Rufus.		Sept.	9	
1100	Henry	1	August	2	
1135	Stephen		Decem.	1	
	Plantaginets.				
1154	Henry	2	Octob.	25	
1189	Richard	1	July	6	
1199	John		April	6	
1216	Henry	3	Octob.	19	
1272	Edward	1	Nove.	15	
1307	Edward	2	July	7	
1326	Edward	3	Januar.	25	
1377	Richard	2	June	21	
	Line of Lanc.				
1399	Henry	4	Sept.	29	
1413	Henry	5	March	20	

1422	Henry 6	August	31
	Li. of Yor.		
1461	Edward 4	March	4
1483	Edward 5	April	9
1483	Richard 3	June	22
	Tudors		
1485	Henry 7	Aug.	22
1509	Henry 8	April	22
1547	Edward 6	Jan.	28
1553	Q. Mary	July	6
1558	Q. Elizab.	Nove.	17
	Stuarts.		
1602	James	March	24
1625	Charls 1	March	27
1648	Charls 2 whom G. preserve.	Jan.	30

From the entrance of *Brute* into this Island to *Cassibellan*, in whose time it was made Tributary to the Romans, is about 1050 years. From thence to the Conquest of it by *William* Duke of *Normandy* 1128 years, and from the Conquest to this present year 1673 is 607 years.

The common Notes and moveable Feasts for the years, 1673, and 1674.

1673		1674
2	THe Golden Number	3
2	Cycle of the Sun	3
22	The Epact	3
G	The Dominical letter	D
Feb. 9	Shrove-sunday	March 1
March 30	Easter-day	April 19
May 8	Ascension-day	May 28
May 18	Whitsunday	June 7
May 25	Trinity-sunday	June 14
Nov. 30	Advent-sunday	Nov. 29

The begining and end of the Terms, 1673.

Hilary Term begins January 23, ends February 12.
Easter Term begins April 16, ends May 12.
Trinity Term begins May 30, ends June 18.
Michaelmas Term begins October 23, ends Nov. 28.

Times prohibiting Marriage.

MArriage comes in on the 13 of January, and by Septuagesima-sunday it is out again until the Octaves of Easter, or Low-sunday; at which time it comes in again, and goes no more out till Rogation sunday: for *Rogamen vestras*: From whence it is forbidden again until Trinity-sunday; and from thence it is unforbidden till Advent-sunday. But then it is out, and comes not in again until S. *Hilary*, or the 13 day of January next after.

Of

Of the Retrogradation, ſtation, and direction of the Planets this year 1673.

SAturn is direct from the beginning of the year to the 17 of July, and from thence Retrograde till the ſecond of December; and then direct to the years end, he is Stationary 5 days before Retrogradation, and 5 days before direction.

Jupiter is direct till the 21 of January, and from thence Retrograde till the 24 of May, and from thence direct to the years end, he is Stationary 4 days before Retrogradation, and as many before Direction.

Mars is not at all Retrograde, but Direct throughout this year.

Venus is Direct from the beginning of the year till the 29 of May, and from thence Retrograde to the 12 of July, and then Direct to the years end, ſhe is Stationary 2 days before Retrogradation and 2 days before Direction.

Mercury is Direct till the 7 of January, and from thence Retrograde to the 29 of January, from thence Direct to the 5 of April, then Retrograde to the 29 of April, from thence Direct to the 4 of September, then Retrograde to the 26 of September, from thence Direct to the 23 of December, then Retrograde to the years end, he is Stationary one day before Retrogradation, and one before Direction.

Note likewiſe that Saturn is an evening Star till the 15 of March, from thence a morning Star to the 25 of September, after that an evening Star to the years end.

Jupiter is a morning Star till the 23 of March, from thence an evening Star to the 12 of October, then a morning Star to the years end.

Mars is an evening Star till the 7 of September, from thence a morning Star to the years end.

January hath xxxi days.

Janus is God of Gates as Poets say,
And January, is the Gate, or way:
(Then I as Janitor may boldly venter,
To set it ope) for the new year to enter.

				Sun-rising.		Sun-setting.			
1	a	Cir. of Christ	8	4	3	56	21	Scor.	10
2	b	Oct. Stephen	8	3	3	57	22		23
3	c	Oct. John	8	2	3	58	23	Sagit.	4
4	d	Oct. Innoc.	8	0	4	0	24		16
5	e	2 sun. af. Ch.	7	59	4	1	25		28
6	f	Epiphany	7	58	4	2	26	Capr.	9
7	g	Julian	7	57	4	3	27		21
8	a	Lucian	7	55	4	5	28	Aqua.	3
9	b	Marcelline	7	54	4	6	29		15
10	c	Sun in Aqua.	7	52	4	8	♒		21
11	d	Hygin	7	50	4	10	1	Pisc.	10
12	e	1 sun. af. Ep.	7	48	4	12	2		22
13	f	Hillary Bish.	7	47	4	13	3	Aries	5
14	g	Felix	7	46	4	14	4		18
15	a	Mauritius	7	45	4	15	5	Taur.	1
16	b	Marcellus	7	44	4	16	6		14
17	c	Anthony	7	42	4	18	7		28
18	d	Prisca	7	40	4	20	8	Gem.	12
19	e	2 aft. Epiph.	7	38	4	22	9		27
20	f	Octab. Hil.	7	36	4	24	10	Can.	12
21	g	Agnes	7	34	4	26	11		27
22	a	Vincent.	7	32	4	28	12	Leo	12
23	b	Term begin	7	30	4	30	13		27
24	c	Timothy bis.	7	28	4	32	14	Virg.	12
25	d	Con. of Paul	7	26	4	34	15		26
26	e	Septuagesima	7	24	4	36	16	Libr.	12
27	f	Quind. Hilar.	7	23	4	37	17		23
28	g	Agnes II.	7	21	4	39	18	Scorp.	6
29	a	Valerius	7	19	4	41	19		18
30	b	K. Charl. mar.	7	17	4	43	20	Sagit.	0
31	c	Septua	7	16	4	44	21		12

New moon 8 day, 8 min. past 2 in the morning.
First quarter 16 day, 38 min. past 3 in the morning.
Full moon 22 day, 11 min. past 1 in the after noon.
Last quarter 29 day, 21 min. past 5 at night.

January 1673.

1
2
3
4
5
6 ✱☉♄ 16 P. Jupiter south 8 min. past 5 in the morning.
7 Cold frosty
8 weather.
9 Mercury
10 Retrograde.
11
12 Milder now
13 but soon after Cambridge Term begins the 13 day.
14 high
15 ☌☉☿ 0.
16 winds with The glorious Planet Venus is an evening star from the beginning of the year to the 20 of June, and after that a morning star to the years end, it setteth the 17 day half an hour past 7 at night.
17 cold weather
18 till toward the
19 end of the
20 moneth.
21
22
23 ✱♄☿ 18 P.
24
25 26 △♄☉ 11 P.
26 pleasant now
27 for the sea-
28 son of the year,
29 but at the end
30 it grows
31 cold.

February hath xxviii days.

Let all unconstant men and women mind,
That this moneth being variously inclin'd,
Hath fewer days to it (by three) assign'd,
Then his two constant neighbours, with him joyn'd.

M.	D.	l	W.	D.	Festival days with terms.	Sun rise	Sun set	Suns place	Moons place.
	1		d		Brigget.	7 14	4 46	22	Sagit 24
	2		e		Purif. of Ma.	7 12	4 48	23	Capr. 6
	3		f		Craft. purif.	7 10	4 50	24	18
	4		g		Veronica	7 8	4 52	25	Aquar. 0
	5		a		Agatha	7 6	4 54	26	12
	6		b		Dorothy.	7 4	4 56	27	24
	7		c		Angulus	7 2	4 58	28	Pisc. 6
	8		d		Paul bish.	7 0	5 0	29	19
	9		e		Shrov.-sund.	6 58	5 2	♈	Aries 2
	10		f		Scholastica	6 56	5 4	1	15
	11		g		Shrove-tues.	6 54	5 6	2	28
	12		a		Term end	6 52	5 8	2	Taur. 11
	13		b		Agabus	6 50	5 10	3	25
	14		c		Valentine	6 48	5 12	4	Gem. 8
	15		d		Faustine	6 46	5 14	5	22
	16		e		Quadragesi.	6 44	5 16	6	Canc. 7
	17		f		Constance	6 42	5 18	7	21
	18		g		Concordia.	6 40	5 20	8	Leo 6
	19		a		Ember week	6 38	5 22	9	20
	20		b		Mildred	6 36	5 24	10	Virgo 5
	21		c		69 Martyrs	6 34	5 26	11	20
	22		d		Peter chair	6 32	5 28	12	Libra 4
	23		e		Ordin. sund.	6 30	5 30	13	18
	24		f		Matthias ap.	6 28	5 32	14	Scorp. 1
	25		g		Constance	6 26	5 34	15	14
	26		a		Victorin	6 24	5 36	16	26
	27		b		Fortunatus	6 22	5 38	17	Sagit 9
	28		c		Oswald bis.	6 20	5 40	18	21

New moon 6 day, 30 min. past 6 at night.
First quarter 14 day, 59 min. past 8 in the morning.
Full moon 20 day, 7 min. past midnight.
Last quarter 28 day, 12 min. past 12 before noon.

February 1673.

1 ☌ ♄ ☿ o.
2 Cold frosty
3 weather, and
4 it may be
5 much snow at
6 this time.
7
8
9
10
11 Alteration of
12 the air, and
13 the weather
14 grows more
15 ☌ ♃ ☿ o plea-
16 sant and mild
17 at this
18 △ ♃ ☿ 4 p.
19 time.
20
21
22 Windy with
23 ☐ ☌ ☿ o.
24 snow or cold
25 rain.
26
27
28

The 6 day at 8 at night the Sun will be totally Eclipsed in the western parts of the world, but cannot be seen by us by reason the Luminaries are under our Horizon at that time.

Commencement for Batchellours in Arts the 13 day.

The evening star setteth about a quarter past 9, and Jupiter south at 2 in the morning.

Æolus, the supposed king of wind,
Now to his subjects, grants most liberty.
For that they often rage most furiously
Within this moneth, we by experience find.

			Sun-rising		Sun-setting				
1	d	David bis.	6	18	5	42	20	Cap.	3
2	e	3 sun. in Lent.	6	16	5	44	21		14
3	f	Eutropius	6	14	5	46	22		26
4	g	Adrian	6	12	5	48	23	Aqua.	8
5	a	Eusebius	6	10	5	50	24		20
6	b	Frederick	6	8	5	52	25	Pisc.	2
7	c	Perpetua	6	6	5	54	26		14
8	d	Quaritan	6	4	5	56	27		28
9	e	4 sun. in Lent.	6	2	5	58	28	Aries	11
10	f	Sun in Aries	6	0	6	0	♈		24
11	g	Cuthbert	5	58	6	2	1	Taur.	8
12	a	Gregory bis.	5	56	6	4	2		22
13	b	Ernestus	5	54	6	6	3	Gem.	5
14	c	Candid mar.	5	52	6	8	4		19
15	d	Longine	5	50	6	10	5	Canc.	3
16	e	5 sun. in Lent	5	48	6	12	6		17
17	f	Gertrude	5	46	6	14	7	Leo	2
18	g	Edw. King	5	44	6	16	8		16
19	a	Joseph	5	42	6	18	9	Virgo	0
20	b	Rupert	5	40	6	20	10		14
21	c	Benedict	5	38	6	22	11		28
22	d	Aphrodisius	5	36	6	24	12	Libra	12
23	e	Palm-sunday	5	34	6	26	13		26
24	f	Muir. fast	5	32	6	28	14	Scorp.	9
25	g	Annun. Mary	5	30	6	30	15		22
26	a	Castulus	5	28	6	32	16	Sagit.	4
27	b	Martian	5	26	6	34	17		17
28	c	Dorothy vir.	5	24	6	36	18		29
29	d	Eustach fast	5	22	6	38	19	Capr.	10
30	e	Easter day	5	20	6	40	20		22
31	f	Balbine	5	18	6	42	21	Aquar.	4

New moon 8 day, 13 min. past noon.
First quarter 15 day, 7 min. past 4 afternoon.
Full moon 22 day, 39 min. past 11 before noon.
Last quarter 30 day, 13 min past 6 in the morning.

March 1673.

1 Good weather
2 for the most
3 part till about
4 the middle of
5 the moneth.
6
7
8
9
10 Very warm
11 but it holds
12 not long.
13 ☌ ☉ ♂ 11 day
14 ♂ ♄ ☉ 15 day
15 about this
16 time expect a
17 cold cloudy
18 season, if not
19 much snow or
20 sleet.
21 ☌ ♄ ☿ 11 p.
22 ☌ ♂ ☿. ☍ ☉ ♃
23
24 ☍ ♃ ☿ 17. p.
25 Better air
26 ♂ ☉ ☿ 12. p.
27 now but very
28 △ ♂ ♃ 3 p.
29 windy, and
30 warm toward
31 the end

Mars and Venus are both evening stars, and may be seen to come nearer together every night then other, until they are in Conjunction.

The latter Act the 13 day

Cambridge Term ends the 21 day.

The evening star setteth 6 min. past 10 at night. Jupiter south half an hour after midnight.

April hath xxx days.

That April ſhow'rs, will bring May flowr's,
It is a ſaying old.
But if now we have froſt, early fruit will be loſt,
And flowr s will longer withhold.

1	g	Theodozus.	5	16	6	44	21	Aquar. 16
2	a	Mary Egyp.	5	14	6	46	22	28
3	b	Richard bif.	5	12	6	48	23	Piſc. 10
4	c	Ambroſe bif.	5	10	6	50	24	23
5	d	Vincent	5	8	6	52	25	Aries 6
6	e	1 ſun. aft. Eaſt.	5	6	6	54	26	20
7	f	Celeſtin	5	4	6	56	27	Taur. 3
8	g	Dionyſius	5	2	6	58	28	17
9	a	Perpet. biſh.	5	0	7	0	29	Gem. 1
10	b	Sun in Taur.	4	58	7	2	☌	16
11	c	Leo Pope	4	56	7	4	1	Canc. 0
12	d	Julius	4	54	7	6	2	14
13	e	2 aft. Eaſter	4	52	7	8	3	28
14	f	Eiburtius	4	50	7	10	4	Leo 12
15	g	Olimpia	4	48	7	12	5	26
16	a	Term begins	4	46	7	14	6	Virgo 10
17	b	Aniceto	4	44	7	16	7	24
18	c	Valerian	4	42	7	18	8	Libra 7
19	d	Alphage	4	40	7	20	9	21
20	e	3 aft Eaſter	4	39	7	21	10	Scorp. 4
21	f	Tres Paſch.	4	37	7	23	11	17
22	g	Gother virg.	4	35	7	25	12	Sagit. 0
23	a	S. George	4	33	7	27	12	12
24	b	Albertus	4	32	7	28	13	25
25	c	Mark Evang.	4	30	7	30	14	Capr. 7
26	d	Cletus	4	28	7	32	15	18
27	e	4 aft. Eaſter	4	27	7	33	16	Aquar. 0
28	f	Vitalis	4	25	7	35	17	13
29	g	Sybilla	4	23	7	37	18	24
30	a	Erkenw. faſt	4	22	7	38	19	Piſc. 6

New moon 7 day, 11 min. past 1 in the morning.
First quarter 13 day, 15 min. past 9 at night.
Full moon 20 day, 12 min. past midnight.
Last quarter 28 day, 2 min. past midnight.

April 1673.

1 Cold at the
2 beginning
3 ✱ ♄ ☿ 1 day.
4 △ ♃ ☿ 19 p.
5 but now plea-
6 ſant ſpringing
7 weather.
8
9
10 Good weather
11 till about the
12 20 day.
13
14
15
16
17
18
19
20 ☌ ♃ ♄ 0.
21 Turbulent and
22 ſtormy about
23 ☌ ☌ ☿ 0. this
24 time.
25
26
27
28 Freſh winds
29 △ ♃ ☿ 4 p.
30 toward the end

The 10 day in the evening Mars, Venus, and the Moon, may be ſeen near together in the ſouth-weſt if the air be clear.

Cambridge Term begins the 9 day.

Jupiter ſouth 20 min. paſt 10 at night.

The 23 day a little paſt noon Mars and Venus are in Conjunct. in the 29 degree of Gemini, and may be ſeen in the ſouth-weſt that evening, Venus being above 2 degrees diſtant from Mars towards the north.

May hath xxxi days.

Now rise early, and walk with Aurora,
now sweet flowers abound,
and green bowers are crown'd,
In the height of her pride, now is Flora.

			Sun-rising.		Sun-setting.			
1	b	Phil. & Jac.	4 21	7	39	20	Pisc	18
2	c	Athanasius	4 20	7	40	21	Aries	1
3	d	Invent cruc.	4 19	7	41	22		14
4	e	Rogation su.	4 18	7	42	23		28
5	f	Gothard	4 16	7	44	24	Taur.	12
6	g	Joh. Port. Lat.	4 15	7	45	25		26
7	a	Johan of Bev.	4 13	7	47	26	Gem.	11
8	b	Ascension-d.	4 12	7	48	27		25
9	c	Craft Ascen.	4 11	7	49	28	Canc.	10
10	d	Gordian	4 9	7	51	29		25
11	e	6 sun. aft. East.	4 8	7	52	☊	Leo	9
12	f	Term ends	4 6	7	54	1		23
13	g	Servatius	4 5	7	55	2	Virg.	7
14	a	Fortunatus	4 3	7	56	3		21
15	b	Sophia	4 2	7	58	4	Libra	4
16	c	Peregrin	4 1	7	59	5		17
17	d	Jodocus fast	3 59	8	1	6	Scorp.	0
18	e	Whitsunday.	3 58	8	2	7		13
19	f	Berherdine	3 57	8	3	8		25
20	g	Baudelius	3 56	8	4	9	Sagit.	8
21	a	Ember Week	3 55	8	5	10		21
22	b	Helen	3 54	8	6	11	Capr.	3
23	c	Dedverius	3 53	8	7	12		15
24	d	Esther	3 52	8	8	13		27
25	e	Ordinat. sun.	3 51	8	9	14	Aquar.	8
26	f	Augustine	3 50	8	10	15		20
27	g	Bede	3 49	8	11	16	Pisc.	2
28	a	German	3 48	8	12	17		14
29	b	K. Ch. II nat.	3 47	8	13	18		27
30	c	Term begins	3 46	8	14	19	Aries	9
31	d	Petronella	3 46	8	14	20		21

New moon 6 day, 12 min. past 11 before noon.
First quarter 13 day, 12 min. past 2 in the morning.
Full moon 20 day, 36 min. past 1 after noon.
Last quarter 28 day, 37 min. past 10 at night.

May 1673.

Pleasant weather with heat increasing.

☐ ♄ ☌ ☿ ☍.

if not

☐ ♄ ☌ ♂ 15 p.

Thunder about this time.

△ ♄ ☌ ☿ ☍.

☐ ♄ ☌ ☿ ☍

Cooler but windy with

☐ ♂ ♄ 1 p.

☌ ☉ ☌ ☿ ☍.

storms.

△ ☉ ♄ 13 p.

More pleasant, but storms

☌ ♂ ☌ ☿ 1 p.

if not thunder

✱ ♄ ☉ 19 p.

soon follow.

Cooler weather at this time.

Mars and Venus may be seen near together (in clear evenings) all this moneth in the south-west, and the 9 day in the Evening the Moon will not be far from them.

Jupiter south 20 min. past 8 at night.

The 21 day Mars and Venus are again in Conjunction, by reason of Venus her slowness in motion, and may be seen nearer together that evening by a degree, then they were at the former Conjunction.

June hath xxx days.

Though Sol's approach so hear, now makes us sweat,
His fiery Chariot quickly will retreat.
Let him begone unto the Torrid Zone,
Their scorched skins can better bear his heat.

			Sun rising.		Sun setting.		
1	G	1 su. af. Trin.	3	46	8	14 20	Taur. 6
2	f	Octab. Trin.	3	45	8	15 21	20
3	g	Erasmus	3	45	8	15 22	Gem. 4
4	a	Petrocius	3	45	8	15 23	19
5	b	Boniface	3	44	8	16 24	Canc. 4
6	c	Artemius	3	44	8	16 25	19
7	d	Paul bish.	3	44	8	16 26	Leo 4
8	E	2 su. af. Trin.	3	43	8	17 27	19
9	f	Quind. Trin.	3	43	8	17 28	Virgo 3
10	g	Onophius	3	43	8	17 29	17
11	a	Barnab. Apo.	3	43	8	17 ♎	Libra 1
12	b	Blandin	3	43	8	17 1	14
13	c	Cyril	3	43	8	17 2	27
14	d	Vigil bish	3	43	8	17 3	Scorp. 10
15	E	3 su. af. Trin.	3	43	8	17 4	23
16	f	Rowland	3	44	8	16 5	Sagit. 5
17	g	Potulph	3	44	8	16 6	17
18	a	Term end	3	44	8	16 7	29
19	b	Gervace	3	45	8	15 8	Capr. 11
20	c	Silverius	3	45	8	15 9	23
21	d	Walburge	3	45	8	15 10	Aqua. 5
22	E	4 su. af. Trin.	3	46	8	14 11	17
23	f	Ethel fast	3	46	8	14 12	29
24	g	John Baptist	3	47	8	13 13	Pisc. 11
25	a	Loy bish.	3	47	8	13 14	23
26	b	John & Paul	3	48	8	12 15	Aries 5
27	c	7 Sleepers	3	59	8	11 16	18
28	d	Leo bish. fast	3	50	8	10 17	Taur. 1
29	E	Peter Apost.	3	51	8	9 18	14
30	f	Com. of Paul.	3	52	8	8 19	28

New moon 4 day, 11 min. past 7 in the after noon.
First quarter 11 day, 6 min. past 9 in the morning.
Full moon 19 day, 51 min. past 3 in the morning.
Last quarter 27 day, 21 min. past 6 in the morning.

June 1673

1 Not much alteration till about the tenth day.
2
3
4
5
6
7
8
9 Colder now
10 ☐ ♄ ☌ ☿ 1 p.
11 △ ♃ ☌ ☽ 3 p.
12 and windy.
13
14
15
16 ✱ ♄ ☌ ☽ 13 p.
17 some storms
18 ☌ ☉ ☌ ♀ 19 day
19 ☐ ♃ ☌ ♀ 11 p.
20 ☐ ☉ ♃ 2 p.
21 about this
22 time and like
23 to thunder.
24
25 Cool & clou-
26 ☐ ☉ ♄ 11 p.
27 ✱ ♃ ☌ ♂ 13 p.
28 ☌ ♀ ☌ ♅ 6 p.
29 dy with wind
30 and rain.

Jupiter, Mars, and Venus are all evening stars still: the Moon will be with Venus the 7 day at 4 in the morning, and the 6 day at midnight with Mars.

Jupiter south 28 min. past 6 at night, and is with the Moon at 3 in the morning.

Venus is now in Conjunction with the Sun, and from hence becoms Oriental, or a morning star, to the end of the year.

July hath xxxi days.

Flora begins to leave her garments gay,
The Lyons heat, will soon abate her pride.
Her flowr's now are turn'd to withering hay,
And fruits appear: which longer will abide.

			Sun-riſing.			Sun-ſetting.		
1	g	Theobald.	3 53	8	7	20	Gem.	12
2	a	Viſit. of Mary	3 54	8	6	21		27
3	b	Cornelius	3 55	8	5	22	Canc.	12
4	c	Martin	3 56	8	4	23		28
5	d	Anſelm	3 57	8	3	24	Leo	12
6	e	6 aft. Trin.	3 58	8	2	25		28
7	f	Becket	3 59	8	1	26	Virg.	12
8	g	Chilian	4 0	8	0	26		27
9	a	Cyril biſh.	4 1	7	59	27	Libra	11
10	b	7 Brethren	4 3	7	57	28		24
11	c	Pius	4 4	7	56	29	Scorp.	7
12	d	Henry	4 5	7	55	♌		20
13	e	7 aft. Trin.	4 7	7	53	1	Sagit.	2
14	f	Bonavent.	4 8	7	52	2		14
15	g	Swithin	4 10	7	50	3		26
16	a	Oſmund	4 11	7	49	4	Capr.	8
17	b	Alexius	4 13	7	47	5		20
18	c	Roſine	4 15	7	45	6	Aqua.	2
19	d	Dog da. beg.	4 17	7	43	7		14
20	e	8 aft. Trin.	4 19	7	41	8		26
21	f	Arbogaſtus	4 21	7	39	9	Piſc.	8
22	g	Mary Mag.	4 22	7	38	10		20
23	a	Apoline	4 24	7	36	11	Aries	2
24	b	Chriſtian. faſt	4 26	7	34	12		14
25	c	James Apoſt.	4 27	7	33	13		27
26	d	Anne	4 29	7	31	14	Taur.	10
27	e	9 aft. Trin.	4 30	7	30	15		23
28	f	Panthalion	4 32	7	28	16	Gem.	7
29	g	Beatrice	4 33	7	27	17		21
30	a	Abdon	4 35	7	25	18	Canc.	6
31	b	German biſ.	4 37	7	23	19		21

New moon 4 day, 10 min. past 2 in the morning.
First quarter 10 day, 39 min. past 6 afternoon.
Full moon 18 day, at 7 at night
Last quarter 26 day, 43 min. past 3 after noon.

July 1673.

1 ☐ ♃ ☿ 2 p.
2
3 ☐ ♄ ☿ 13. p.
4 Cool and
5 cloudy with
6 high winds.
7 △ ♄ ♂ 10 p.
8 following
9 ♂ ☉ ☿ 2 p.
10 soon after.
11
12
13
14
15 Cool winds
16 ✶ ♃ ☿ 5 p.
17
18 △ ♄ ☿ 3 p.
19 I fear some
20 bad weather
21 as storms,
22 ♂ ♂ ☿ 11 a.
23 thunder and
24 high winds a-
25 bout this tim.
26 ✶ ☉ ♃ o.
27 better now
28 but △ ☉ ♄ 3 p.
29 grows cool &
30 ✶ ♀ ☿ 8 a.
31 moist at end.

Jupiter, and Mars are still evening stars but Mars is somwhat too near the Sun to be seen, but Jupiter sets not till 28 min. past 11 at night.
The 8 day is Commenc. Tuesday.

Cambridge term end the 11 day.

The morning star Venus is now gotten from under the sun-beams, and may be seen to rise in the North-east above half an hour before 2 in the morning.

August hath xxxi days.

Each fruitfull piece, a golden fleece,
(More rich then that of Colchis) now doth bear:
Which soon is shorn, and home is born
By the industrious husbandmans great care.

				Sun-rising.			Sun-setting.			
1	c	Lammas day	4	39	7	21	19	Leo	6
2	d	Stephanus	4	41	7	19	20		21
3	e	10 aft. Trin.	4	43	7	17	21	Virgo	6
4	f	Aristarchus	4	44	7	16	22		21
5	g	Oswald	4	46	7	14	23	Libra	6
6	a	Transfigurat.	4	48	7	12	24		20
7	b	Donatus	4	49	7	11	25	Scorp.	3
8	c	Cyriac	4	51	7	9	26		16
9	d	Roman	4	53	7	7	27		29
10	e	11 aft. Trin.	4	55	7	5	28	Sagit.	11
11	f	Tiburtus	4	57	7	3	29		2
12	g	Sun in Virgo	4	59	7	1	♑	Capr.	5
13	a	Hyppolyte	5	0	7	0	1		17
14	b	Eusebius	5	2	6	58	2		29
15	c	Assump. of M.	5	4	6	56	3	Aqua	11
16	d	Roch mart.	5	6	6	54	4		23
17	e	12 aft. Trin.	5	8	6	52	5	Pisc.	5
18	f	Helen	5	10	6	50	6		17
19	g	Sebaldus	5	12	6	48	7		29
20	a	Lenes bish.	5	14	6	46	8	Aries	12
21	b	Bernard	5	16	6	44	9		24
22	c	Symphron.	5	17	6	43	10	Taur.	7
23	d	Zachens fast	5	19	6	41	11		20
24	e	Barthol. Apo.	5	21	6	39	12	Gem.	3
25	f	Lewes	5	23	6	37	13		17
26	g	Ireneus	5	25	6	35	14	Canc.	1
27	a	Dog da. end.	5	27	6	33	15		15
28	b	Augustine	5	29	6	31	16	Leo	0
29	c	Decol. John	5	30	6	30	17		15
30	d	Felix	5	32	6	28	18	Virgo	0
31	e	14 aft. Trin.	5	34	6	26	19		15

New moon 2 day, 45 min. past 8 in the morning.
First quarter 9 day. 4 min. past 7 in the morning
Full moon 17 day. 22 min. past 10 before noon.
Last quarter 25 day. 2 min. past 3 in the morning.
New moon 31 day 18 min. past 5 at night.

Auguſt 1673.

1
2
3
4 The former
5 part of this
6 ☌ ♄ ☿ 12 p.
7 moneth is like
8 to produce
9 ſome ſtorms
10 with high
11 winds.
12 □ ♄ ♀ 9. a.
13 ☍ ☿ ♀ 13 p.
14
15
16
17
18 A probability
19 of good wea-
20 ther for the
21 moſt part to
22 the end of the
23 moneth, for
24 husbandmen
25 to get in their
26 harveſt.
27
28
29
30
31

The ſecond day at 9 in the morning the ſun will be Eclipſed, but will ſcarce be ſeen of us by reaſon of the moons latitude, but it will be viſible to the greater part of *Africa*, and to ſuch as are upon the *Arabian*, and *Indian* Seas, in *Barbadoes* it will be total.

The morning ſtar riſeth a little after one in the morning.

September hath xxx days.

As Autumne's come, and fruit, and leaves now fall,
So we our Autumn have, wherein we muſt,
By our owne nature turn to duſt, (withal.
Plants cloathing onely fall, death takes our lives

			Sun-riſing		Sun-ſetting		
1	f	Giles	5 36	6	24 19		Virg. 29
2	g	Veronica	5 38	6	22 20		Libra 14
3	a	Serapia	5 40	6	20 21		28
4	b	Theodoſius	5 42	6	18 22		Scorp. 11
5	c	Bertine	5 44	6	16 23		25
6	d	Magnus	5 46	6	14 24		Sagit. 7
7	e	15 aft. Trin.	5 48	6	12 25		20
8	f	Nativ. Mary	5 50	6	10 26		Capr. 2
9	g	Gorgon	5 52	6	8 27		14
10	a	Hilarius	5 54	6	6 28		26
11	b	Maurice	5 56	6	4 29		Aqua 7
12	c	Martinian	5 58	6	2 ♎		19
13	d	Sun in Libra	6 0	6	0 1		Piſc. 1
14	e	16 after Trin.	6 2	5	58 2		13
15	f	Nicomedes	6 4	5	56 3		26
16	g	Euphemia	6 6	4	54 4		Aries 8
17	a	Ember week	6 8	5	52 5		21
18	b	Methodius	6 11	5	49 6		Taur. 4
19	c	Euſtarhius	6 13	5	47 7		17
20	d	Fauſta faſt	6 15	5	45 8		Gem. 1
21	e	Mat. Ap. Ord.	6 17	5	43 9		14
22	f	Mauricius	6 20	5	40 10		28
23	g	Eldras	6 22	5	38 11		Canc. 11
24	a	Samuel	6 24	5	36 12		25
25	b	Cleophas	6 26	5	34 13		Leo 10
26	c	Cyprian	6 28	5	32 14		24
27	d	Coſ. & Dam.	6 30	5	30 15		Virg. 9
28	e	18 aft. Trin.	6 32	5	28 16		23
29	f	Michael Arc.	6 34	5	26 17		Libra 8
30	g	Hierome	6 36	5	24 18		22

First quarter 7 day, 18 min. past 11 at night.
Full moon 16 day. 43 min. past 1 in the morning.
Last quarter 23 day, 03 min. past 10 before noon.
New moon 30 day, 16 min. past 3 in the morning.

September 1673.

1
2
3
4
5 Very warm at
6 this time if
7 ☌ ☉ ♂ ☍,
8 ✶ ☿ ♀ 21 p.
9 not thunder.
10 Cooler now
11 △ ♄ ☿ 9 a.
12 with high
13 winds and
14 stormy wea-
15 ther follow.
16 ☌ ☉ ☿ 9 p.
17
18 ☌ ♂ ☿ 8 a.
19 high winds
20 still, with
21 cloudy and
22 cool weather
23 and wet
24 ☍ ♄ ☉ 12 p.
25 most part
26 of the
27 moneth.
28
29
30

Jupiter is yet an evening star and setteth about an hour after the sun, but will soon be too near the sun to be seen.

Sturbridge Fair begins the 8 day.

The morning star riseth about a quarter past 2 in the morning.

There being several Conjunctions of the Planets this moneth, and most of the Planets being near the sun, may cause much bad weather.

October hath xxxi days.

The earth is now stript of her former glory,
Her gay, and rich aray, will soon turn hoary,
At last the Scorpion will, poor vegetables kill.
By which we may, read our own Tragick story.

				Sun-rising.			Sun-setting.			
1	a	Remigius	6	39	5	21	19	♏ corp.	6
2	b	Leodegar	6	41	5	19	20		19
3	c	Candide	6	43	5	17	21	Sagit.	3
4	d	Francis	6	45	5	15	22		15
5	e	19 aft. Trin.	6	47	5	13	23		28
6	f	Faith	6	49	5	11	24	Capr.	10
7	g	Marcellus	6	50	5	10	25		22
8	a	Pelagius	6	52	5	8	26	Aquar.	4
9	b	Dionysius	6	54	5	6	27		15
10	c	Gereon	6	56	5	4	28		27
11	d	Nicasius	6	58	5	2	29	Pisc.	9
12	e	20 aft. Trin.	7	●	5	0	♑		21
13	f	Sun in Scorp.	7	2	4	58	1	Aries	4
14	g	Calixtus	7	4	4	56	2		17
15	a	Olympia	7	6	4	54	3	Taur.	0
16	b	Gallus	7	8	4	52	4		13
17	c	Florence	7	10	4	50	5		27
18	d	Luke Evang.	7	12	4	48	6	Gem.	10
19	e	21 aft. Trin.	7	14	4	46	7		24
20	f	Tres Mich.	7	15	4	45	8	Canc.	8
21	g	Ursula	7	17	4	43	9		22
22	a	Cordula	7	19	4	41	10	Leo	6
23	b	Term begins	7	20	4	40	11		20
24	c	Salome	7	22	4	38	12	Virg.	5
25	d	Crispine	7	24	4	36	13		19
26	e	22 aft. Trin.	7	25	4	35	14	Libra	3
27	f	Mens. M. fast	7	27	4	33	15		17
28	g	Sim. and Jude	7	29	4	31	16	Scorp.	1
29	a	Narcissus	7	30	4	30	17		14
30	b	Theonestus	7	32	4	28	18		27
31	c	Quintin fast	7	33	4	27	19	Sagit.	10

First quarter 7 day, 52 min. past 5 at night.
Full moon 15 day, 26 min. past 4 afternoon.
Last quarter 22 day, 42 min. past 4 afternoon.
New moon 29 day, at 4 afternoon.

October 1673.

1
2 ☌ ♄ ☌ ☽ p.
3 Not very cold
4 but storms
5 with high
6 winds and
7 cloudy about
8 this time.
9 ☌ ♄ ☿ 9 a.
10
11 ☌ ☉ ♃ 8 a.
12 Better wea-
13 ther but soon
14 alters.
15 ☌ ♂ ☿ ☽ p.
16 High winds
17 with wet.
18
19
20
21 ☌ ♃ ☿ o
22 Windy still
23 with cold
24 cloudy and
25 wet towards
26 the moneths
27 end.
28
29
30 ☌ ♄ ☿ 5 p.
31

Jupiter, Mars, and Mercury, are now near the Sun, and will hardly be seen this moneth.

Cambridge Term begins the 10 day, and then the Proctours and Taxours are chosen.

The 14 day Mars and Mercury are in Conjunction in the 19 Degree of Libra, but they being within 11 Degrees of the Sun will scarcely be seen.

The morning star riseth about 40 minutes after 3 in the morning.

Some tender plants, which Scorpio did not kill,
The Archer will: and a set time they have,
Which nature gave (like us) to lie i'th' grave,
Until the Spring, their Resurrection bring.

			Sun-rising.			Sun-setting.			
1	d	All Saints	7	35	4	25	19	Sagit.	23
2	e	23 aft. Trin.	7	37	4	23	20	Capr.	6
3	f	Craft. anima.	7	39	4	21	21		18
4	g	Modestin	7	41	4	19	22	Aquar.	0
5	a	Powder treas.	7	43	4	17	23		12
6	b	Leonard	7	45	4	15	24		23
7	c	Willibrood	7	47	4	13	25	Pisc.	5
8	d	Claudius	7	49	4	11	26		17
9	e	24 aft. Trin.	7	51	4	9	27		29
10	f	Erastus	7	52	4	8	28	Aries	12
11	g	Martin bish.	7	54	4	6	29		25
12	a	Sun in Sagit.	7	55	4	5	1	Taur.	8
13	b	Craft. Mart.	7	57	4	3	1		23
14	c	Erkenwald	7	58	4	2	2	Gem.	6
15	d	Leopold	7	59	4	1	3		20
16	e	25 aft. Trin.	8	0	4	0	4	Canc.	4
17	f	Amanus	8	1	3	59	5		19
18	g	Octab. Mart.	8	2	3	58	6	Leo	3
19	a	Elizabeth	8	3	3	57	7		17
20	b	Edmund	8	4	3	56	8	Virgo	1
21	c	Oblat. Mart.	8	5	3	55	9		15
22	d	Cicely virgin	8	6	3	54	10		29
23	e	26 aft. Trin.	8	7	3	53	11	Libra	13
24	f	Chrysolog	8	8	3	52	12		27
25	g	Katharine	8	9	3	51	13	Scorp.	10
26	a	Conrade	8	10	3	50	14		23
27	b	Agricola	8	11	3	49	15	Sagit.	6
28	c	Term end	8	12	3	48	16		19
29	d	Saturn fast	8	12	3	48	17	Capr.	1
30	e	Andrew Ap.	Adv. sun		3	47	18		14

First quarter 6 day, at 2 afternoon.
Full moon 14 day, 7 min. past 6 in the morning.
Last quarter 20 day, 48 min. past 11 at night.
New moon 28 day, 38 min. past 7 in the morning.

November 1673.

1
2
3 Windy but
4 ☌☉♀ 9 a.
5 ☌♃♂ 7 a.
6 warm for the
7 season of the
8 year.
9
10
11
12
13 △♄♀ 10 a.
14 the air now
15 grows colder
16 and some rain
17 or misty wea-
18 ther.
19 △☉♄ 20 p.
20
21 Pleasant wea-
22 ☌♃♀ 2 p.
23 ther for the
24 time of the
25 year the latter
26 part of this
27 moneth.
28
29
30

The 5 day a little before 7 in the morning there happens a remarkable Conjunction of Jupiter and Mars in the 4 degree of Scorpio, this Conjunction (according to M. *Gadbury*) will be Ecliptical, and Mars will hide part of Jupiter from our sight, if the air be clear, they may be seen to rise in the south-east above two hours before the sun.

The 22 day at 2 afternoon Jupiter and Venus are in Conjunction in the 8 degree of Scorpio, they may be seen to rise near together in the south-east if the air be clear about 5 in the morning.

December hath xxxi days.

The Sun from us now fartheſt is removed,
For which to make amends the wel-beloved
The Son of Righee ouſneſs this moneth did riſe,
And dy'd, that we might live, O! mighty prize.

				Sun-riſing.		Sun-ſetting.		
1	f	Eligius biſh.	8	14	3	46	20	Capr. 26
2	g	Candide	8	14	3	46	21	Aquar. 8
3	a	Lucius	8	15	3	45	22	20
4	b	Barbara	8	15	3	45	23	Piſc. 1
5	c	Sabina	8	15	3	45	24	13
6	d	Nicholaus	8	16	3	44	25	25
7	e	2 in Advent	8	16	3	44	26	Aries 7
8	f	Conce. of M.	8	16	3	44	27	20
9	g	Joachim	8	17	3	43	28	Taur. 3
10	a	Melchia	8	17	3	43	29	16
11	b	Sun in Capr.	8	17	3	43	♍	Gem. 0
12	c	Damaſus	8	17	3	43	1	14
13	d	Lucy vir.	8	17	3	43	2	28
14	e	3 in Advent	8	17	3	43	3	Canc. 13
15	f	Valerian	8	17	3	43	4	Leo, 28
16	g	O Sapientia	8	16	3	44	5	13
17	a	Ember week	8	16	3	44	6	28
18	b	Sebaſtion	8	16	3	44	7	Virg. 12
19	c	Nemeſius	8	15	3	45	8	26
20	d	Julius faſt.	8	15	3	45	9	Libra 10
21	e	Tho. Ap. Or.	8	15	3	45	10	24
22	f	Theodoſius	8	14	3	46	11	Scorp. 7
23	g	Victor	8	14	3	46	12	20
24	a	Ad. & E. faſt	8	13	3	47	13	Sagit. 3
25	b	Chriſt born	8	12	3	48	14	15
26	c	S. Stephen	8	11	3	49	15	28
27	d	S. John	8	10	3	50	16	Capr. 10
28	e	Innocents	8	9	3	51	17	22
29	f	Exſcens	8	8	3	52	18	Aqua. 4
30	g	David	8	7	3	53	19	16
31	a	Silveſter	8	6	3	54	20	28

First quarter 6 day, 34 min. past 10 before noon.
Full moon 13 day, 20 min. past 6 at night
Last quarter 20 day, at 9 in the morning.
New moon 27 day, 18 min. past 9 at night.

December. 1673.

1	Windy and
2	☍ ♄ ☿ 6 p.
3	✶ ☽ ☿ o.
4	Cloudy with
5	rain or snow
6	♂ ☌ ♀ 1 p.
7	about this
8	time.
9	
10	
11	
12	
13	
14	
15	
16	Cold weather
17	△ ♄ ♀ 18 p.
18	and like to
19	□ ♄ ☉ 10 p.
20	freeze.
21	
22	
23	✶ ☉ ☽ 9 p.
24	More pleasant
25	now.
26	△ ♄ ♂ 2 p.
27	
28	
29	High winds
30	toward sheend
31	♂ ☉ ☿ 2 p.

The 7 day at 6 night Mars and Venus are in Conjunction, and may be seen to rise that morning in the south East before 6 of the Clock above a degree distant from each other in respect of Latitude, this being the third Conjunction of those two Planets this year.

Cambridge Term ends the 16 day.

The morning star riseth before 4 of the Clock.

A plain and eaſie Table ſhewing the true Intereſt due upon any ſum of money from five ſhillings to an hundred pounds, for a year or under, after the rate of ſix pounds in the hundred.

	1 Mon.	3 Mon.	6 Mon.	9 Mon.	A year.
	lb. p. q.	lb. p. q.	lb. p. q.	lb. p. q.	lb. p. q.
5	0 0 0	0 0 3	0 1 3	0 1 2	0 3 2
10	0 0 0	0 1 3	0 3 2	0 5 0	0 7 0
15	0 0 0	0 2 2	0 5 1	0 8 2	0 10 2
1	0 1 0	0 3 2	0 7 0	0 10 2	1 1 0
2	0 2 1	0 7 0	1 2 1	1 9 1	2 4 2
3	0 3 2	0 10 2	1 9 1	2 7 3	3 6 3
4	0 4 3	1 2 1	2 4 2	3 6 3	4 9 0
5	0 6 0	1 6 0	3 0 0	4 6 0	6 0 0
6	0 7 0	1 9 2	3 7 0	5 4 2	7 2 1
7	0 8 1	2 1 0	4 2 1	6 3 1	8 4 2
8	0 9 2	2 4 2	4 9 1	7 3 1	9 6 3
9	0 10 3	2 8 1	5 4 2	8 0 3	10 9 0
	po. lb. p.	po. lb. p.	po. lb. p.	po. lb. p.	po. lb. p.
10	0 1 0	0 3 0	0 6 0	0 9 0	0 12 0
20	0 2 0	0 6 0	0 12 0	0 18 0	1 4 0
30	0 3 0	0 9 0	0 18 0	1 7 0	1 16 0
40	0 4 0	0 12 0	1 4 0	1 16 0	2 8 0
50	0 5 0	0 15 0	1 10 0	2 5 0	3 0 0
60	0 6 0	0 18 0	1 16 0	2 14 0	3 12 0
70	0 7 0	1 1 0	2 2 0	3 3 0	4 4 0
80	0 8 0	1 4 0	2 8 0	3 12 0	4 16 0
90	0 9 0	1 7 0	2 14 0	4 1 0	5 8 0
100	0 10 0	1 10 0	3 0 0	4 10 0	6 0 0

Pounds. Tens of Pounds.

SWAN

SWAN

The second part of this

ALMANACK

for the yeat of our

LORD GOD

1673.

Wherein is contained a figure of the Heavens at the Suns entrance into *Aries*, with the Eclipses, also Rules and Tables, for finding the hour of the night at all times when the Moon or Stars are seen.

With other Tables surable to a work of this kind.

CAMBRIDGE,
Printed by *John Hayes*, Printer to the University, 1673.

A Table for the Assize of Bread.

Town bakers in Corporations.		By Troy weight, having twelve ounces in a pound, and 20 peny weight in each of those twelve ounces.									By Avoir-du-pois wt. over-weight having 16 ounces in the pound, our common weights.						Countrey Bakers out of Corpor.	
Price of Wheat.		Peny white			Wheat.			Houshold.			d. White		Wheaten		houshold		Price of Wheat.	
		li.	Oun.	d	li.	Oun.	d.	li.	Oun.	d.	Oun.	qu.	Oun.	qu.	Oun.	qu.		
2 sh.	d.	1	3	6	1	11	0	2	6	12	17	0	25	1	34	0	2 sh.	3 d.
2	3	1	2	2	1	9	2	2	4	4	16	0	23	0	32	0	2	6
2	6	1	1	0	1	7	10	2	2	0	15	0	21	1	30	0	2	9
2	9	1	0	1	1	6	0	2	0	2	13	2	19	3	27	0	3	0
3	0	0	11	5	1	4	18	1	10	10	12	1	18	3	24	2	3	3
3	3	0	10	11	1	3	16	1	9	2	11	2	17	1	23	0	3	6
3	6	0	9	19	1	2	17	1	7	18	11	0	16	1	22	0	3	9
3	9	0	9	8	1	2	1	1	6	16	10	1	15	2	20	2	4	0
4	0	0	8	18	1	1	7	1	5	16	9	3	14	3	19	2	4	3
4	3	0	8	9	1	0	12	1	4	17	9	1	14	0	18	2	4	6
4	6	0	8	1	1	0	0	1	4	2	8	3	13	1	17	2	4	9
4	9	0	7	13	0	11	10	1	3	6	8	1	11	3	16	2	5	0
5	0	0	7	7	0	11	0	1	2	14	8	0	12	0	16	0	5	3
5	3	0	7	1	0	10	10	1	2	1	7	3	11	2	15	2	5	6
5	6	0	6	15	0	10	2	1	1	10	7	2	11	0	15	0	5	9
5	9	0	6	5	0	9	14	1	1	0	7	0	10	2	14	0	6	0
6	0	0	6	5	0	9	6	1	0	10	6	3	10	1	13	2	6	3
6	3	0	6	0	0	9	0	1	0	0	6	2	10	0	13	0	6	6
6	6	0	5	16	0	8	15	0	11	12	6	1	9	2	12	2	6	9
6	9	0	5	12	0	8	9	0	11	2	6	0	9	1	12	1	7	0

The proportion of the pound *Avoir-du-pois* to the pound *Troy* is as 60 to 73; so that 60 pounds *Avoir du-pois* are equal to 73 pounds *Troy* The proportion of the ounce *Troy* to the ounce *Avoir-du-pois* is as 73 to 80; so that 73 ounces *Troy*, are equal to 80 ounces *Avoir-du-pois*. Therefore the pound *Avoir-du-pois* is greater then the pound *Troy*: and the ounce *Troy* is greater then the ounce *Avoir-du-pois*.

Wheat at 5 shillings the [illegible] the Town-bakers peny white is (by *Troy*) 7 ounces 7 peny weight: by *Avoir-du-pois* 8 ounces. And the Countrey bakers peny white (by *Troy*) 7 ounces 53 peny weight: by *Avoir-du-pois* 8 ounces and one quarter. If the baker want one ounce in 36 ounces of his assize, he shall suffer the Pillory without any fine or addiction, 51 Hen. 3.

A Brief Chronology.

THe Creation of the World	5677
Noahs Flood	4020
The destruction of *Troy*	2874
Brute entred *England*	2781
The building of *London*	2775
The budding of *York*	2659
The building of *Cambridge*	2487
Alexander the Great died	1996
Cæsar conquered *Britain*	1725
Titus destroyed *Jerusalem*	1602
Cambridge made a University	1038
The first Mayor of *London*	483
The invention of Guns	293
The invention of Printing	224
Tilbury Camp, July 25	85
The Powder Treason	68
King *Charles* I. murdered	25
King *Charles* II. Returned	13
King *Charles* the II married	12
The terrible destructive wind in *February*	11
3 Blazing Stars in a short time	9
The great Plague in *London* whereof died 100000	8
London almost consumed by fire	7
The Merchants met again in the Royall Exchange	4
The Duke of Albemarle died	4
The Dutchess of Orleans at *Dover* and died soon after	3
War proclaimed against the Dutch *March* 28	1

Since

The Suns entrance into *Aries*. 1673.

According to *Aſtronomia Inſtaurata* the Sun enters *Aries* *March* 9 day, 26 minutes paſt 10 at night, which is thus proved by Calculation.

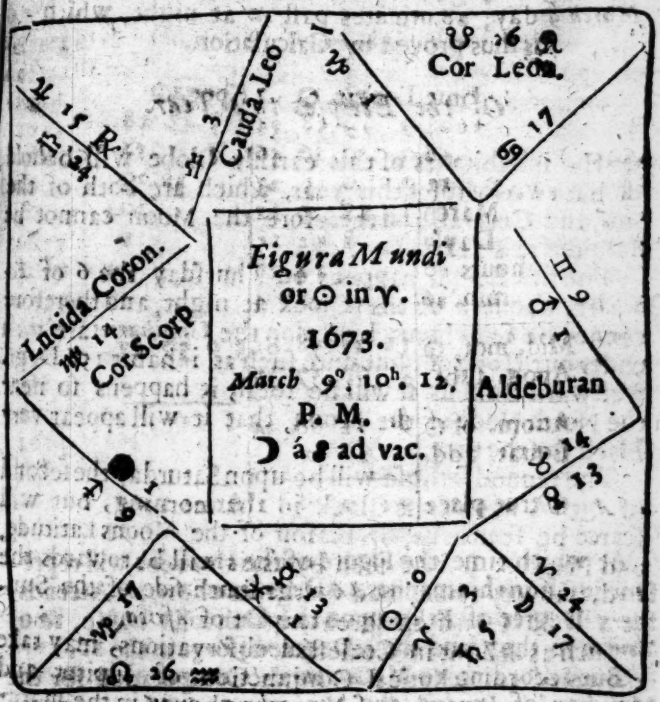
Time	Longit. ☉				Apog. ☉			
1601	9	19	58	34	3	5	43	28
60	0	0	26	56		1	1	38
12	0	0	5	23			12	20
March	1	28	9	11				10
Day 9		8	52	15				1
hours 10			24	38				
min. 26			1	4				
Mid. mot. ☉	11	27	58	01	3	6	57	37
Apog. ſubſ.	3	6	57	37				
Anom. of ☉	8	21	00	24				
Equat. add		2	2					
☉ true place	9	0	0	1	Aries	0	0	1

At which time the Figure of the Heavens will repreſent it ſelf in this manner, 16 Degrees of *Scorpio* Aſcends, the 5 Degree of *Piſces* upon the Cuſp of 4 houſe, 16 of *Taurus* in the 7, and the 5 Degree of *Virgo* in the 10.

But according to M. *Gadbury*'s Computation for the Meridian of *London*, the Sun enters *Aries* 14 minutes ſooner, that is at 11 min. paſt 10 at night, at which time the Scheme of the Heavens will appear in the following manner, at *London*, and becauſe the difference of Meridians between *London* and *Cambridge* is but one minute, I ſhall not alter the Figure.

A

A Figure of the Heavens at the Suns entrance into *Aries*.



The Suns entrance into the other Cardinal signs is as followeth.

He enters *Cancer June* 11 at 2 in the morning, at which time beginneth our summer quarter.

He enters *Libra September* 12 at 5 at night, at which time beginneth the Autumnal quarter.

He enters *Capricorn December* 11 at 4 in the morning, at which time beginneth the winter quarter.

Of

Of the Eclipses this Year.

THe inhabitants of this earthly Globe will behold but two Eclipses this year, which are both of the Sun, and Central, and therefore the Moon cannot be Eclipsed this year.

The first Eclipse happens on Thursday the 6 of *February*, about 8 of the Clock at night, and therefore cannot be seen by us, by reason the *Luminaries* are then under our Horizon, but unto such as inhabit 156 Degr. westward from us it will be total, it happens so near the North Node of the Moon, that it will appear very black for the time.

The second Eclipse will be upon Saturday the second of *August*, at 9 of the Clock in the morning, but will scarce be seen of us, by reason of the Moons Latitude, and Parallax, if it be seen by us, it will be towards the end, but very small, and on the south-side of the Sun. It will be seen in the greater part of *Africa*.

Such as delight in Cœlestial observations, may take notice of an Ecliptical Conjunction of Jupiter and Mars, upon the 5 day of *November* about 6 in the morning, as also of three Conjunctions of Mars and Venus this year.

Coni-

Common rules to know the age of the Moon, her Change, Full and Quarters, with the time of her southing, rising and setting.

Years of our Lord.	Epact
1673	22
1674	3
1675	14
1676	25
1677	6
1678	17
1679	28
1680	9
1681	20
1682	1
1683	12
1684	23
1685	4
1686	15
1687	26
1688	7
1689	18
1690	29
1691	11

To find the Moons age.

TO find the age of the Moon you must have 3 numbers, the first is the Epact, (which you may find by this Table) the second is the number of the moneths from *March* (including both,) the third is the days of that moneth past wherein you would know, then add those three numbers together, if they rise not to 30, so old is the Moon, or if they pass 30, take 30 out and the rest are the age of the Moon, this is meant of the moneths that have 31 days, for in them which have but 30 you must take alway but 29.

Example.

The 10 of *August* this year I would know the age of the Moon, first the Epact is 22, and the moneths from *March* to *August* 6 (including both) and 10 the day of the moneth, which added together make 38 from whence take 30 and there rests 8 the age of the Moon that day.

Another Example.

The 20 of *September*, the Epact is 22 as before, the months from *March* 7, and 20 the day of the moneth, which added together make 49 from whence take 29 because *September* hath but 30 days and there rests 20 the age of the Moon that day.

To find the day of the Change, to the Epact add the moneths from *March* as before, and if they come not to 30, look what they want of 30, and at so many days of the moneth the Moon changeth.

Example, this year 1673 the Epact is 22 and *August* from *March* 6 which added together make 28 which being taken from 30, because *March* hath 31 days, and there rests 2 which sheweth the Moon changeth the second day.

Again, in *September*, the Epact 22 and the moneth 7 make 29, now because *September* hath but 30 days, I must abate from 29 and there rests nothing, therefore I conclude the Moon changeth the 29, now to find the full or Oppolition add to the change 14 days and 18 hours, and for the other Aspects see this little Table that followeth.

				Days.	Ho.
To the Conjunction for the	✱ ☐ △	to the Full for the	△ ☐ ✱	add	4 7 9	22 9 20

To find the Moons coming to the South.

From the New Moon to the Full, multiply the age by 4, but from the Full to the New Moon see what her age wanteth of 30, which multiply by 4, and divide the sum by 5, and the Quotient sheweth the hour of her southing, and the remainder multiplied by 12 produceth the minutes to be added.

Example.

The 10 of *August* this year 1673, the Moon is 8 days old, which multiplied by 4 the product is 32, which being divided by 5, the quotient will be 6, and 2 remaining,

ing, which 2 multiplied by 12, makes 24: which sheweth that the Moon comes to the South that day at 24 minutes past 6 in the afternoon, but for the easier performance of this, and the time of her shining, I have added the following Table.

A Table shewing the time of the Moons coming to the South, and quantity of her shining.

The Moons age.		Moons southing and shin.		Moons age for her shin.	
1	16	0	48	1	29
2	17	1	36	2	28
3	18	2	24	3	27
4	19	3	12	4	26
5	20	4	0	5	25
6	21	4	48	6	24
7	22	5	36	7	23
8	23	6	24	8	22
9	24	7	12	9	21
10	25	8	0	10	20
11	26	8	48	11	19
12	27	9	36	12	18
13	28	10	24	13	17
14	29	11	12	14	16
15	30	12	0	15	

The

The use of the foregoing Table.

FInd the Moons age in the first Column, and next against the same towards the right hand, is the time of her coming to the South; which from the New Moon to the Full is always in the afternoon, but from the Full Moon to the New, it is in the morning.

Example.

The 10 of *August* this year 1673, the Moon is 8 days old, which I find in the first Column, against which towards the right hand, in the second Column, is, 6. 24. so that (it being before the Full Moon) I conclude she cometh to the South 24 minutes past 6 at night.

To find how long she shineth, and when she riseth and setteth.

TO find the time of her shining, enter the third Column, with the Moons age, and against it towards the left hand is the time of her shining, which all the time of her increase, being added to the hour of Sun-rising, it will give the time of her rising, but if the same be added to the time of Sun-setting, it will give the time of her setting,

But after the Full, take the quantity of her shining from the Suns-rising, and you shall have her rising: and if you take the same from the Sun-setting it gives the time of her setting.

Exam-

Example.

The 10 of *August* before mentioned, the Moon is 8 days old, which I find in the third Column in the first row descending, and against the same in the second Column I find 6 hours 24 minutes, for the time of her shining, which being added to the time of Sun-rising 4 hours 55 min. it gives the time of the Moons rising at 19 minutes past 11 beforenoon.

Again to the time of the Suns-setting at 7 hours 1 min. I add the time of her shining 6 hours 24 minu. and the sum is 13 hours, 29 minutes, from which taking 12, there remains 1 hour, 29 minutes, which sheweth that the Moon setteth 29 minutes past 1 in the morning the 10 day of *August* this year, 1673.

But I must tell you these rules are not exact, neither can we obtain the change of the Moon, or her place in the Zodiack precisely, by any common rule whatsoever, by reason of the great inequality in the motion of the Moon, however these will often come near the truth, and may be very profitable when better helps are wanting, but for finding of the hour of the night more exactly I shall add a Table of some of the principal fixed Stars, by which, and the Suns right Ascension, you may find the true hour of the night at any time, when the Stars are seen.

A Table shewing the right Ascension and Semidiurnal arches of 26 of the principal fixed Stars, being very usefull to find the hour of the night.

Names of the Stars.	R. A. ho.	m.	Se. ar. ho.	m.
The Southern * of the Whales tail.	0	27	4	4
The Girdle of Andromeda	0	51	10	6
The former horn of the Ram	1	36	7	39
Bright * in the head of the Ram	1	49	8	7
Bright * in the jaw of the Whale	2	45	5	45
Middlemost of the seven Stars	3	28	8	16
Aldebaran, or the Bulls eye	4	17	7	27
Bright * of Orion	4	59	5	14
The former » of Orions Belt	5	16	5	57
Hinder shoulder of Orion	5	38	6	39
The bright foot of Gemini	6	19	7	32
The great Dog	6	31	4	30
The lesser Dog	7	22	6	32
North Asellus	8	23	8	14
South Asellus	8	25	7	50
The Lyons-heart	9	50	7	14
The Lyons-tail	11	32	7	32
The Virgins-Spick	13	8	5	11
Arcturus	14	1	8	2
South-Ballance	14	33	4	40
North-Ballance	15	0	5	17
Scorpions-heart	16	9	3	23
The tail of the Vulture	18	51	7	14
Higher horn of the Goat	20	0	4	46
The mouth of Pegasus	21	28	6	44
The head of Andromeda	23	52	8	51

A Table shewing the right Ascension of the Sun for every other day in the year.

Days	Jann. H.	M.	Febru. H.	M.	March H.	M.	April. H.	M.	May. H.	M.	June H.	M.
1	19	34	21	42	23	28	1	21	3	14	5	19
3	19	43	21	50	23	34	1	28	3	22	5	27
5	19	51	21	58	23	43	1	35	3	30	5	35
7	19	59	22	5	23	50	1	43	3	38	5	44
9	20	8	22	13	23	57	1	50	3	46	5	52
11	20	16	22	21	0	4	1	58	3	54	6	0
13	20	25	22	28	0	12	2	5	4	2	6	9
15	20	33	22	36	0	19	2	12	4	9	6	17
17	20	42	22	43	0	26	2	20	4	17	6	25
19	20	50	22	51	0	34	2	28	4	25	6	34
21	20	58	22	58	0	41	2	36	4	34	6	42
23	21	6	23	6	0	48	2	43	4	42	6	50
25	21	14	23	14	0	55	2	81	4	50	6	58
27	21	22	23	22	1	2	2	58	4	58	6	7
29	21	30			1	10	2	6	5	6	6	15

Days	July H.	M.	August H.	M.	Septem. H.	M.	Octob. H.	M.	Nov. H.	M.	Decem. H.	M.
1	7	23	9	25	11	18	13	7	15	7	17	15
3	7	31	9	32	11	26	13	14	15	16	17	24
5	7	39	9	40	11	33	13	22	15	24	17	33
7	7	47	9	47	11	40	13	29	15	32	17	42
9	7	55	9	55	11	47	13	37	15	40	17	51
11	8	3	10	2	11	55	13	45	15	49	18	0
13	8	11	10	9	12	2	13	52	15	57	18	9
15	8	19	10	17	12	9	14	0	56	6	18	18
17	8	27	10	24	12	16	14	8	16	14	18	27
19	8	35	10	31	12	24	14	16	16	23	18	36
21	8	43	10	39	12	31	14	23	16	31	18	44
23	8	50	10	46	12	38	14	31	16	40	18	53
25	8	58	10	53	12	45	14	39	16	49	19	2
27	9	6	11	1	12	52	14	47	16	58	19	11
29	9	13	11	8	13	0	14	55	17	6	19	19

To find the hour of the night by the former Tables.

First by the Southing of the Starr.

I Suppose there is scarce any man but knows some of the fixed stars, especially the 7 stars, or the Bulls eye, Orion, the Lyons heart and Dog stars. When you see any of these, or any other placed in the former Tables upon the south, you must that day take the right Ascension of the sun from the right Ascension of the star, and there remains the hour of the night: but if the suns right Ascension be greater then the stars, and so you cannot substract, add to the stars right Ascension 24 hours and then make substraction.

Example.

SUppose upon the 5 of *Decemb.* in the evening I should see the seven stars upon the south point and I desire at that time to know the hour of the night, first I find the right Ascension of the sun that day 17 hours 33 minutes, and the right Ascension of the seven stars 3 hours 28 minutes, now because the right Ascension of the seven stars is less then the suns, I add to the seven stars right Ascension 24 hours. and from the whole I substract the suns right Ascension 17 hours 33 min. and the remainder 9 hours 55 min. shews that it is 55 min. past 9 at night. Again the 27 of *March* I would know at what time the Lyons heart, will be upon the Meridian, or south, first I find the right Ascension of the Lyons heart 9 hours 50 minutes, and the suns right Ascension that day is one hour 2 min. which being substracted from the right Ascension of the Lyons heart, leaves 8 hours 48 minutes, which shews the Lyons heart will be upon the south point

point 48 minutes past 8 at night the 27 of *March* afore said.

To find the hour of the night by the fixed Stars rising and setting.

TO find the hour by their setting, add to their southing their Semidiurnal-arch, (or half their arch above our Horizon) and it shews the time of their setting, or substract the same from their southing, and you have the time of their rising.

Example.

SUppose the 6 of *December* in the morning I should see the seven stars setting in the west, and would from thence learn what hour it is, therefore to the time of their southing 9 hours 55 min. I add their Semidiurnal-arch found in the first Table 8 hour 16 min. and the whole is 18 hours 11 min. from whence casting away 12 for midnight, there remains 6 hours 11 min. for the hour required.

On the contrary, substract their Semidiurnal-arch 8 hours 16 min. from their southing, and there remains one hour 39 min. which shews that the 7 stars rise 39 min. past one in the afternoon.

After the same manner you may find the hour of the night, by the other stars, at any time when they are seen, which you will find both usefull and easie.

A Catalogue of some of the eminent Cities and Towns in *England*; shewing their difference of Meridians from the City of *London*, with the height of the Pole in each place.

Names of places.	Temporary distance.	Heigh. of Po.		Names of places.	Temp. distan.	Height of Pole.		
	M.		D. M.		M.		D.	M.
S. Albans	1	S.	51 55	Manchest.	9	S.	53	24
Berwick	6	S.	55 49	Nottingh.	4	S.	53	3
Bedford	2	S.	52 18	Newark	3	S.	53	2
Bristol	11	S.	51 32	Newcastle	1	S.	55	3
Boston	0	0	53 2	Norwich	4	A.	52	44
CAMBRIDGE	1	A.	52 17	Northam.	4	S.	52	18
Canterbury	5	A.	51 27	Oakenhã.	3	S.	52	44
Carlisle	10	S.	54 57	Oxford	5	S.	51	42
Chester	10	S.	53 16	Peterbor.	2	S.	52	35
Colchester	5	A.	52 4	Queenbo.	4	A.	51	35
Chichester.	3	S.	50 56	Richmon.	6	S.	54	26
Darby	5	S.	53 6	Rochest.	2	A.	51	30
Dartmouth	15	S.	50 32	Shrewsb.	11	S.	52	48
Dorchester	10	S.	52 31	Stafford	8	S.	52	55
Durham	5	S.	54 45	Stamford	2	S.	52	41
Ely	2	A.	52 20	Upingham	3	S.	52	40
Gloucester	9	S.	52 0	Warwick	6	S.	52	25
Grantham	2	S.	52 58	Winchest.	5	S.	51	10
Hertford	1	S.	51 50	Worcester	9	S.	52	20
Hereford	11	S.	54 8	Walsingh.	5	A.	52	54
Hull	1	S.	53 50	Yarmouth	6	A.	52	45
Lancaster	11	S.	54 8	York	4	S.	54	0
Leicester	4		52 40	London			51	32
Lincoln	1	S.	53 15					

By these Tables you may see the difference of Meridians between *Cambr.* and *Lond.* is but one min. to be added, and the height of the Pole at *Cambr.* 52 Degr. 17 min. at *Chester* 10 min. to be substracted, and the height of the Pole 52 Degr. 16 minutes.

FINIS.